

WHAT IS CLAIMED IS:

1. An electrically driven brake device including a plurality of brake actuators for generating braking force when driven electrically, a power supply source for storing electric energy and supplying electric power to said brake actuators and power source lines for connecting said power supply source and said brake actuators, wherein a power breaker is provided at positions of said power source line capable of insulating and separating said plurality of brake actuators into at least two systems.

2. An electrically driven brake device according to claim 1, wherein said power breaker includes a cutoff switch for separating said power source line into a first power source line and a second power source line, a first voltage detection circuit for detecting a voltage of said first power source line and a second voltage detection circuit for detecting a voltage of said second power source line, said second power source line supplies driving electric power to said first voltage detection circuit, and said first power source line supplies driving electric power to said second voltage circuit.

3. An electrically driven brake device according to claim 1, wherein said power breaker includes an electric switch conducting electric connection/cutoff control and a fuse type switch fused by thermal energy at series position on said power source line, and a

40047406 "044"06

current value at which said electric switch is brought into a cutoff state by an over-current is smaller than a current value at which said fuse type switch is brought into a cutoff state by an over-current.

4. An electrically driven brake device including a plurality of brake actuators for generating braking force when driven electrically, a plurality of power supply sources for storing electric energy and supplying electric power to said brake actuators, a main power source line for connecting said plurality of power supply sources, and secondary power source lines for connecting said main power source line and said brake actuators, wherein a power breaker is provided at positions of said main power source line capable of insulating and separating said plurality of brake actuators into at least two systems.

5. An electrically driven brake device according to claim 4, wherein said power breaker includes a cutoff switch for separating said power source line into a first power source line and a second power source line, a first voltage detection circuit for detecting a voltage of said first power source line and a second voltage detection circuit for detecting a voltage of said second power source line, said second power source line supplies driving electric power to said first voltage detection circuit, and said first power source line supplies driving electric power to said second voltage circuit.

6. An electrically driven brake device according to claim 4, wherein said power breaker includes an electric switch conducting electric connection/cutoff control and a fuse type switch fused by thermal energy, at series positions on said power source line, and a current value at which said electric switch is brought into a cutoff state by an over-current is smaller than a current value at which said fuse type switch is brought into a cutoff state by an over-current.

7. An electrically driven brake device according to claim 4, wherein said plurality of power supply sources comprise a plurality of power supply sources having different voltages, a converter for conducting voltage conversion is disposed on said main power source line, and all of said secondary power source lines are connected to a high voltage side of said main power source line.

8. An electrically driven brake device according to claim 4, which further includes a secondary power breaker switched to a cutoff state when an over-current is supplied thereto, on said secondary power source line, and wherein a current value at which said secondary power breaker is brought into a cutoff state is smaller than a current value of the cutoff condition of said power breaker on said main power source line.

9. A control apparatus of an electrically driven brake device including a plurality of actuators for generating braking force when driven electrically, a

power supply source for supplying electric power to said plurality of actuators and a power source line for connecting said power supply source and said actuators, said control apparatus comprising:

a control circuit for generating a cutoff signal; and

a power breaker disposed on said power source line, for separating said plurality of actuators into at least two actuator groups insulated and separated from one another, in response to said cutoff signal.

2025-04-06 10:47:06